

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.: MO-0125075

Owner: Junior Flowers
Address: P.O. Box 730, Reynolds, MO 63666

Continuing Authority: Same as above
Address: Same as above

Facility Name: Scott Tie Company
Address: Farm Road 500, Ellington, MO 63638

Legal Description: SE ¼, SW ¼, Sec. 10, T29N, R1E, Reynolds County
Latitude/Longitude: Outfall #001 +3712120/-09056175 Outfall #005 +3712031/-09056034

Receiving Stream: Doe Run Creek (Losing)
First Classified Stream and ID: Webb Creek (02766)
USGS Basin & Sub-watershed No.: (11010007-050004)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

See Page 2

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

June 24, 2005
Effective Date

Doyle Childers, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

June 23, 1010
Expiration Date
MO 780-0041 (10-93)

Gary L. Gaines, P.E., Director, Southeast Regional Office

FACILITY DESCRIPTION (continued)

Industrial - SIC #2421, 2448, & 2491

Inactive Wood Treatment Facility

Stormwater runoff only.

Outfall #001* - Where Doe Run Creek (DRC) north tributary enters Scott Tie Property;

Outfall #002 - Eliminated. This internal monitoring point has been incorporated with Outfall #005. The related sawdust pile is to be removed;

Outfall #003 - Eliminated. This internal monitoring point has been incorporated with Outfall #005. The related sawdust pile (near old tie mill) is to be removed;

Outfall #004 - Eliminated. This internal monitoring point has been incorporated with Outfall #005. All product from Treated Tie Storage area has been removed. The area upstream of OF 004 is no longer used to store treated lumber;

Outfall #005 - DRC north tributary downstream of the abandoned tie manufacturing facility. This monitoring point (in the north tributary of Doe Run Creek prior to confluence with the south tributary) is considered as representative of runoff from the now inactive wood treatment facility;

Outfall #006 - Eliminated. DRC south tributary (north branch) where it enters Scott Tie Property. Extraneous to the portion of site previously used for product manufacturing and storage;

Outfall #007 - Eliminated. DRC south tributary (south Branch) where it enters Scott Tie Property. Extraneous to portion of site previously used for product manufacturing and product storage;

Outfall #008 - Eliminated. DRC where collective flow from the south and north branches of DRC exits the Scott Tie Property. Replaced by Outfall #005, which is downstream from portion of site previously used for product manufacturing and product storage. Potentially contaminated flow from the north tributary of DRC is diluted at outfall #008 by flows from the south tributary, which is isolated from areas that were previously occupied by the wood treatment facility and storage area.

* Outfall #001 is maintained to determine the quality of water entering Scott Tie property from an active sawmill operation located upstream. If the sample results of Outfall 005 (on a gross basis) exceed the permit limits then the sample results from Outfall 001 should be subtracted from the results of Outfall #005 in order to determine the actual (or net) contributions to DRC from the Scott Tie property: If results are reported on a net basis this fact shall be plainly noted on the annual monitoring report.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 3 of 9	
					PERMIT NUMBER MO-0125075	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall 001</u>						
Flow	MGD	*		*	once/year**	24 hr. estimate
Biochemical Oxygen Demand	mg/L	*		*	once/year**	grab****
Total Settleable Solids	mL/L/hr	*		*	once/year**	grab****
Total Suspended Solids	mg/L	*		*	once/year**	grab****
Chemical Oxygen Demand	mg/L	*		*	once/year**	grab****
Total Petroleum Hydrocarbons	mg/L	*		*	once/year**	grab****
Oil and Grease	mg/L	*		*	once/year**	grab****
PH - Units	SU	*		*	once/year**	grab****
Color*****					once/year**	grab****
Chlorophenolic & Creosote Constituents (Note 1)						
Pentachlorophenol	µg/L	*		*	once/year**	grab****
2,4,6-Trichlorophenol	µg/L	*		*	once/year**	grab****
2,3,4,6-Tetrachlorophenol	µg/L	*		*	once/year**	grab****
2-Chlorophenol	µg/L	*		*	once/year**	grab****
2,4-Dimethylphenol	µg/L	*		*	once/year**	grab****
2,4-Dinitrophenol	µg/L	*		*	once/year**	grab****
P-Chloro-M-Cresol	µg/L	*		*	once/year**	grab****
Acenaphthene	µg/L	*		*	once/year**	grab****
Acenaphthylene	µg/L	*		*	once/year**	grab****
Benzo (A) Anthracene	µg/L	*		*	once/year**	grab****
Dibenzo (A, H) Anthracene	µg/L	*		*	once/year**	grab****
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2005</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 4 of 9	
					PERMIT NUMBER MO-0125075	
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OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall 001 (continued)</u>						
Benzo (A) Pyrene	µg/L	*		*	once/year**	grab****
Benzo (K) Fluoranthene	µg/L	*		*	once/year**	grab****
Chrysene	µg/L	*		*	once/year**	grab****
Fluoranthene	µg/L	*		*	once/year**	grab****
Fluorene	µg/L	*		*	once/year**	grab****
Indeno (1,2,3-CD) Pyrene	µg/L	*		*	once/year**	grab****
Naphthalene	µg/L	*		*	once/year**	grab****
Phenanthrene	µg/L	*		*	once/year**	grab****
Phenol	µg/L	*		*	once/year**	grab****
Methyphenol	µg/L	*		*	once/year**	grab****
<u>Outfall 005</u>						
Flow	MGD			*	once/year**	24 hr. estimate
Biochemical Oxygen Demand	mg/L	*		*	once/year**	grab****
Total Settleable Solids	mL/L/hr	1.5		1.0	once/year**	grab****
Total Suspended Solids	mg/L	70		50	once/year**	grab****
Chemical Oxygen Demand	mg/L	120		90	once/year**	grab****
Total Petroleum Hydrocarbons	mg/L	15		10	once/year**	grab****
Oil and Grease	mg/L	15		10	once/year**	grab****
PH - Units	SU	***		***	once/year**	grab****
Color*****		*		*	once/year**	grab****
MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE <u>October 28, 2005</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 5 of 9	
					PERMIT NUMBER MO-0125075	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #005 (continued)						
Chlorophenolic & Creosote Constituents (Note 1)						
Pentachlorophenol	µg/L	1		1	once/year**	grab****
2,4,6-Trichlorophenol	µg/L	2		2	once/year**	grab****
2,3,4,6-Tetrachlorophenol	µg/L	<10		<10	once/year**	grab****
2-Chlorophenol	µg/L	0.1		0.1	once/year**	grab****
2,4-Dimethylphenol	µg/L	<10		<10	once/year**	grab****
2,4-Dinitrophenol	µg/L	70		70	once/year**	grab****
P-Chloro-M-Cresol	µg/L	<10		<10	once/year**	grab****
Acenaphthene	µg/L	<10		<10	once/year**	grab****
Acenaphthylene	µg/L	<10		<10	once/year**	grab****
Benzo (A) Anthracene	µg/L	0.2		0.2	once/year**	grab****
Dibenzo (A, H) Anthracene	µg/L	0.2		0.2	once/year**	grab****
Benzo (A) Pyrene	µg/L	0.2		0.2	once/year**	grab****
Benzo (K) Fluoranthene	µg/L	0.2		0.2	once/year**	grab****
Chrysene	µg/L	0.2		0.2	once/year**	grab****
Fluoranthene	µg/L	<10		<10	once/year**	grab****
Fluorene	µg/L	<10		<10	once/year**	grab****
Indeno (1,2,3-CD) Pyrene	µg/L	0.2		0.2	once/year**	grab****
Naphthalene	µg/L	<10		<10	once/year**	grab****
Phenanthrene	µg/L	<10		<10	once/year**	grab****
Phenol	µg/L	100		100	once/year**	grab****
Methyphenol	µg/L	<10		<10	once/year**	grab****
MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE <u>October 28, 2005</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** One sample must be taken during each calendar year.
- *** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- **** A representative grab sample shall be taken 30 to 60 minutes after stormwater discharge begins.
- ***** Description of the visual appearance of the effluent. For example: clear, green, black, etc.

Note 1 - The monthly limitation for each chemical listed below Creosote Constituents and Chlorophenolic, and Creosote constituents (that does not have a water quality criterion) is less than the quantification level set by standard methods. The daily limitation for each chemical listed below Creosote Constituents and Chlorophenolic & Creosote Constituents that does not have a water quality criterion) is less than the quantification level set by standard methods. The quantification level is indicated in the Effluent Limitations and Monitoring Requirements table for each analyte.

REQUIREMENTS

NOTE: These requirements do not supersede nor remove liability for compliance with county or other local ordinances.

1. It is the permittee's responsibility to maintain a Storm Water Pollution Prevention Plan (SWPPP). The permittee must keep a copy of the SWPPP and make a current copy of the plan available to the Department upon request. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in the following document:

Storm Water Management For Industrial Activities, Developing Pollution Prevention Plans and Best Management Activities, (Document number EPA 832-R-92-006) published by the United States Environmental Protection Agency (USEPA) in September 1992.

The SWPPP must include the following:

- (a) An assessment of all storm water discharges associated with wood treating operations. This must include a list of potential contaminants and an annual estimate of amounts that will be used in the described activities.
- (b) A listing of Best Management Practices (BMPs) and a narrative explaining how BMPs will be implemented to control and minimize the amount of potential contaminants that may enter storm water.
- (c) A narrative explaining how RCRA and CERCLA requirements for this type of operation are being met.
- (d) A schedule for implementing the BMPs.
- (e) The SWPPP must include a schedule for monthly site inspections and a brief written report. The inspections must include observation and evaluation of BMP effectiveness, deficiencies, and corrective measures that will be taken. Deficiencies must be corrected within seven days. Inspection reports must be kept on site with the SWPPP. These must be made available to DNR personnel upon request.
- (f) A provision for designating an individual to be responsible for environmental matters.
- (g) A provision for providing training to all personnel involved in material handling and storage, and housekeeping of maintenance and cleaning areas. Proof of training shall be submitted on request of DNR.

REQUIREMENTS (continued)

- (h) A provision for sawdust or other waste materials piles to be managed to control the amount of precipitation that is allowed to infiltrate. The following Best Management Practices are suggested:
 - (1) Limit storage time of sawdust to prevent degradation and generation of leachate;
 - (2) Divert storm water around sawdust piles with ditches, swales, and/or berms;
 - (3) Cover and/or enclose sawdust piles to prevent contact with storm water by using silos, van trailers, sheds, roofs, buildings, or tarps. Sawdust piles and residues shall not be located within the 10-year flood plain.
- 2. The Permittee is required to continue to maintain the property in accordance with the Site Characterization Plan (SCP) previously submitted in accordance with the June 16, 2000 discharge permit and subsequently approved by the department. The department's approval of the SCP followed submission of a 2001 SCP Implementation Report and a related field confirmation of sampling conducted by the Department's Environmental Services Program. Any follow-up actions such as additional site cleanup should comply with the practices, concepts, and methods prescribed in the approved SCP.
- 3. The permittee is responsible for the development of an annual summary operating report that must be submitted by October 28 of each year (notwithstanding any reporting requirements contained in the attached Standard Conditions). The report shall detail any unusual occurrences such as discovery of previously unknown contaminants and any steps taken toward their removal. The report shall also detail remedial work undertaken to remove sawdust or other wood scraps and/or other site clean up. The report must also indicate if nothing unusual has occurred.
- 4. Any potential water contaminants removed from the site, including but not limited to, sawdust and wood scrapes must be disposed of properly.
- 5. The discharge of storm water from these facilities shall not cause a violation of the state water quality general criteria 10 CSR 20-7.031(3). The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (e) There shall be no significant human health hazard from incidental contact with the water;
 - (f) There shall be no acute toxicity to livestock or wildlife watering;
 - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

REQUIREMENTS (continued)

6. This permit may be reopened and modified, or alternatively revoked and reissued, to:
- (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

7. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That the permittee will start treating wood at this site. Notice of pending start-up shall be submitted to the Director sixty (60) days prior to the date that wood treating operations are to commence.
- (b) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) One hundred micrograms per liter (100 ug/L);
 - (2) Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
- (c) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

8. Water that has accumulated in secondary containment areas must be analyzed for possible contamination. When the presence of contaminants is indicated, water shall receive the appropriate treatment before release or taken to a permitted treatment facility if it does not meet permit limits.

9. There shall not be a release of polychlorinated biphenyl compounds (PCBs) to waters of the state at or above the level of quantification defined as 1 µg/L or 1ppb.

10. Records Retention and Reporting

Monitoring reports shall be submitted with the annual summary operating report by October 28 of each year. All sampling data shall be maintained by the permittee for a period of five (5) years and shall be supplied to the Department of Natural Resources upon written request (supercedes Part I. Section A: 7. Records Retention). A copy of all of the sampling data must be submitted with an application of reissuance of this permit.

REQUIREMENTS (continued)

11. Reporting of Gross versus Net Sample Results

If the sample results of Outfall 005 (on a gross basis) exceed the permit limits, the values from Outfall 001 should be subtracted from the values measured at Outfall #005. If flows at both outfalls are essentially equal, this difference may be reported as the actual (or net) contribution to DRC from the Scott Tie property. If net results are reported this fact shall be plainly noted on the annual monitoring report along with details of the calculations used to figure the net concentrations.

After a violation has been reported, samples of storm water runoff resulting from a subsequent rainfall greater than 0.1 inches shall be collected from both outfalls. Analytical results of this sample shall be submitted in writing to the Department of Natural Resources (this paragraph superseded Part I, Section B: e. A. Noncompliance Notification).

DUTY TO COMPLY

The permittee shall comply with all conditions of this permit. Any noncompliance with this permit constitutes a violation of Chapter 644, Missouri Clean Water Law, and 10 CSR 20-6. Noncompliance may result in enforcement action, termination of this authorization, or denial of the permittee's request for renewal.

SAWDUST WOOD SCRAP REMOVAL AND TERMINATION OF PERMIT

Since activities at this site have ceased the permittee shall take steps to remove any remaining sawdust and wood scraps from the site. Following removal of all wood wastes and upon assurance that significant amounts of other pollutants (such as contaminated soil) do not exist on the site, the permittee may request termination of this permit by submitting a completed Form J - REQUEST FOR TERMINATION OF A STATE OPERATING PERMIT.